

Welcome



Fermi Data Analysis Workshop

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Workshop Objectives



- Today we'll cover *Fermi* analysis basics:
 - Data content, selection cuts, caveats
 - Analysis methodologies, synopsis of tools
 - ML method→ point source analysis
 - Light curve & pulsar analysis
- Emphasis on hands on analysis
 - roving support staff
- Feedback & discussion
- GI Program: Guidelines for Proposer



Agenda, Staff



8:00 - 9:00	Registration, Setup	
9:00 - 9:10	Overview, Workshop Objectives	Shrader
9:10 - 9:20	Data Selection, Exploration	McEnery
9:20 - 9:45	Hands on Session 1	All
9:45 - 10:00	Point Source Analysis	Chiang
10:00 - 10:15	Using the Catalog for Analysis	Digel
10:15 - 11:00	Hands on Session 2	All
11:00 - 11:15	Q&A, Review	All
11:15 - 12:00	Hands on Session 2 (con.)	All
12:00 - 13:15	Lunch Break	
13:15 - 13:30	Q&A, Review	All
13:30 - 14:00	Hands on Session 2 (con.)	All
14:00 - 14:15	Pulsar Analysis	den Hartog
14:15 - 14:30	Light Curve Analysis	Corbet
14:30 - 15:45	Hands on Session 3	All
15:45 - 16:00	Summary, Feedback	All
16:00 - 16:30	GI Program and Science Highlights	Shrader
16:30 - 17:00	GI Program Q&A	All
17:00	Adjourn	

C. Shrader, NASA/GSFC



Prerequisites



- Science Tools Installation hopefully done prior, but we can help as needed
 - Workshop web page is useful resource
- Sample datasets on workshop web page
 - can substitute alternative data selections, but be cognizant of run-time, S/N issues
- Access to Fermi SSC web site
 - Data analysis documentation sets
 - Threads, Cicerone, Reference ('fhelp') docs



Useful Information



• Web URLS:

- http://fermi.gsfc.nasa.gov/workshops/data_analysis_dec09/
 Workshop web site
- <u>http://fermi.gsfc.nasa.gov/ssc/</u> FSSC home
- http://fermi.gsfc.nasa.gov/ssc/data/access/ Data access
- http://fermi.gsfc.nasa.gov/ssc/data/analysis/ Data analysis page
- http://fermi.gsfc.nasa.gov/cgi-bin/ssc/faq/glastfaq.cgiFAQs



Cycle-3 Timeline



Announcement (as part of ROSES 2008) September, 2009

Release online proposal aids & November 5, 2009

documentation

Notices of Intent (optional) November 16, 2009

Proposals Due February 5, 2010

Proposal Peer Review April, 2010

Stage-II (budget proposal) solicitation May 2010

Budget deadline, processing & grants

June-July 2010

administration

Fermi Cycle 3 Begins Mid August, 2010





Let's get started ...





Extra Slides





Important resource:

FSSC data analysis web page



Data

Data Policy

Data Access

Data Analysis

+ System Overview

+ Software Download + Documentation

+ Analysis Threads

+ User Contributions

+ Caveats

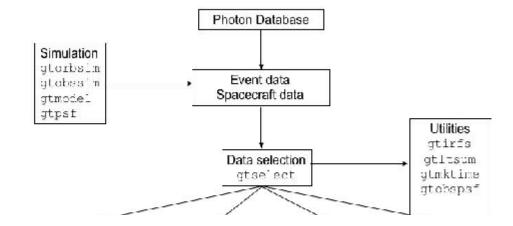
Newsletter

FAQ

+ FSSC Home

Overview: LAT Data Analysis Tools

Through a collaborative effort between the Fermi Science Support Center and the LAT instrument team a suite of instrument specific science analysis tools has been developed for public release. This software will be distributed and maintained by the FSSC. It has been designed within the framework of the HEADAS FTOOLS methodology, to ensure cross-mission compatibilities wherever possible and to minimize the learning curve for users of other high-energy astrophysics mission data sets. The general analysis flow is illustrated in this graphic:



Fermi





Sample data sets posted online:

Vela Pulsar, 3C 454.3



Workshop Data

- 3c453
- Vela





Science Tools Download Page:

Hopefully this has already been done(?) but if not, refer to this page for supported platforms, installation instructions



We have binary distributions for:

- Scientific Linux 4.4 32 bit libc 2.3.4
- · Scientific Linux 5 32 bit libc 2.5
- Scientific Linux 4 64 bit libc 2.3.4
- Scientific Linux 5 64 bit libc 2.5
- MAC OS X 10.4 nowerno

Stanford University, December 8, 2009